A GIS ANCHORED INFORMATION RETRIEVAL SCHEME (GISIRS) BASED ON VECTORIZATION OF RASTER MAP

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Abstract

This paper presents a vectorization of raster maps/images technique using database management system. This technique calculate the necessary object constructing point's coordinates from the raster map and store into the database along with the assigned colors of the objects. The spatial coordinates are calculated by the mouse click method. The boundary and filling colors are assigned to each object at the time of digitization. A mapping technique has been generated to retrieve the attributes from the database to regenerate the digitized objects of the vector map for visual display/interpretation. Provision has also been made to edit digitized objects for correctness or future upgradation. During editing new objects may be inserted, objects may be deleted and color of an object may be reassigned .Along with the tables containing the spatial coordinates and color of the objects this technique store the name and path of the input raster map so that the user can edit the vector map later.

Keywords: Raster map, Vector map, Digitization, GIS, Information retrieval.